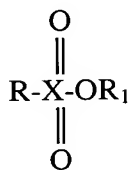
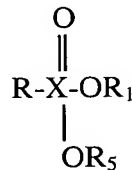


LISTING OF CLAIMS

1. (Currently amended) An oral contraceptive composition for administration to the male comprising a compound of the formula

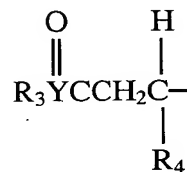
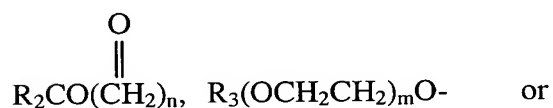


or

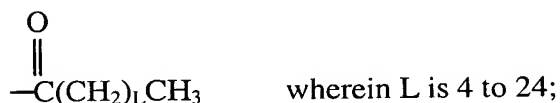


wherein X is P or S;

R is C₄-C₂₄ alkyl, C₄-C₂₄ alkenyl, C₄-C₂₄ alkoxy,



R₁ is H, C₁-C₄ alkyl, a pharmaceutically acceptable cation or



R₅ is H, C₁-C₄ alkyl, phenyl or a pharmaceutically acceptable cation,

R₂ is C₄-C₂₄ alkyl or C₄-C₂₄ alkoxy, n is 0 to 4;

R₃ is C₄-C₂₄ alkyl, m is 3 to 10;

R₄ is H, C₁-C₄ alkyl or COOR₆;

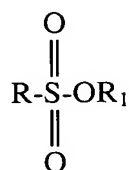
R₆ is H or C₁-C₁₃ alkyl; and

Y=O or NH and a pharmaceutically acceptable carrier suitable for oral delivery.

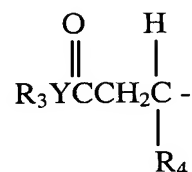
2. (Previously presented) The composition of claim 1 wherein the composition is formulated as tablet or capsule.

3. (Previously presented) The composition of claim 1 wherein the composition is formulated as a gelcap or suspension.

4. (Previously presented) The composition of claim 1 wherein the compound has the general formula



wherein R is C₄-C₂₄ alkyl, C₄-C₂₄ alkoxy, or

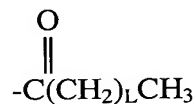


and Y is O.

5. (Previously presented) The composition of claim 4 wherein

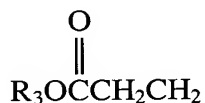
R is C₁₀-C₁₈ alkyl;

R₁ is a pharmaceutically acceptable cation or



and L is 20.

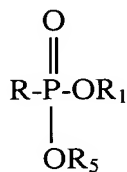
6. (Previously presented) The composition of claim 4 wherein R is



R₃ is C₄-C₂₄ alkyl; and

R₁ is a pharmaceutically acceptable cation.

7. (Previously presented) The composition of claim 1 wherein the compound has the general formula



wherein R is C₄-C₂₄ alkyl or C₄-C₂₄ alkoxy; and

R₁ and R₅ are independently H or a pharmaceutically acceptable cation.

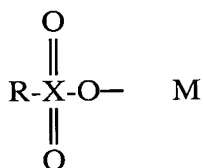
8. (Previously presented) The composition of claim 7 wherein

R is C₄-C₂₄ alkoxy;

R₁ is H or a pharmaceutically acceptable cation; and

R₅ is H.

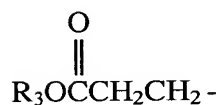
9. (Previously presented) The contraceptive composition of claim 1 wherein the compound has the general formula:



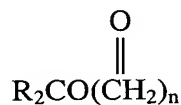
wherein X is P or S;

M is a cation; and

R is C₄-C₂₄ alkyl, C₄-C₂₄ alkenyl, C₄-C₂₄ alkoxy,



or



wherein n = 2, 3 or 4;

R₂ = C₉-C₁₃ alkyl; and

R₃ = C₄-C₂₄ alkyl,

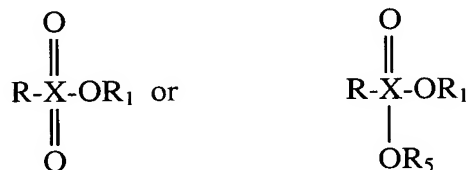
10. (Previously presented) The composition of claim 9 wherein X is S.

11. (Previously presented) The composition of claim 9 wherein the composition is formulated as tablet or capsule.

12. (Previously presented) The composition of claim 9 wherein the composition is formulated as a Gelcap or suspension.

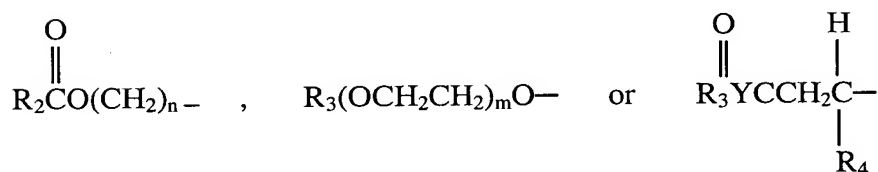
13. (Previously presented) The composition of claim 10 wherein the cation is sodium.

14. (Currently amended) A contraceptive transdermal patch or implant for administration to the male, wherein said patch or implant comprises a composition comprising a compound of the general formula:

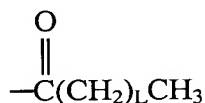


wherein X is P or S;

R is C₄-C₂₄ alkyl, C₄-C₂₄ alkenyl, C₄-C₂₄ alkoxy,



R₁ is H, C₁-C₄ alkyl, a pharmaceutically acceptable cation



wherein L is 4 to 24;

R₅ is H, C₁-C₄ alkyl, phenyl or a pharmaceutically acceptable cation,

R₂ is C₄-C₂₄ alkyl or C₄-C₂₄ alkoxy, n is 0 to 4;

R₃, is C₄-C₂₄ alkyl, m is 3 to 10;

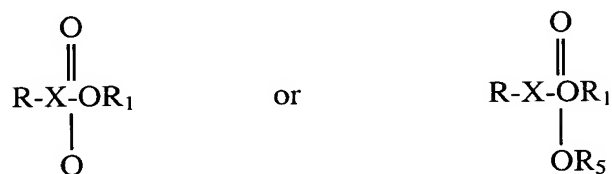
R₄ is H, C₁-C₄ alkyl or COOR₆;

R₆ is C₁-C₁₃ alkyl; and

Y = O or NH.

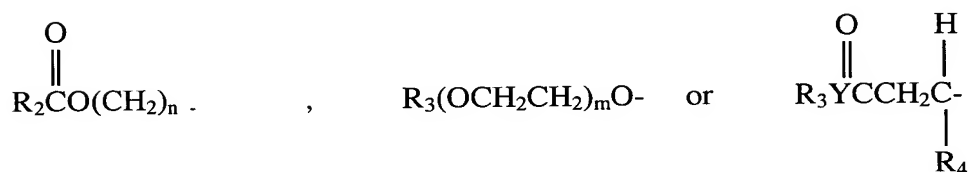
~~14.~~ 15. (Currently amended) A method of inhibiting the capacitation of sperm cells,

said method comprising the steps of contacting in a male the sperm cells with a composition comprising a compound of the general formula:



wherein X is P or S;

R is C₄-C₂₄ alkyl, C₄-C₂₄ alkenyl, C₄-C₂₄ alkoxy,



R₁ is H, C₁-C₄ alkyl, a pharmaceutically acceptable cation or



wherein L is 4 to 24;

R₅ is H, C₁-C₄ alkyl, phenyl or a pharmaceutically acceptable cation,

R₂ is C₄-C₂₄ alkyl or C₄-C₂₄ alkoxy, n is 0 to 4;

R₃ is C₄-C₂₄ alkyl, m is 3 to 10;

R₄ is H, C₁-C₄ alkyl or COOR₆;

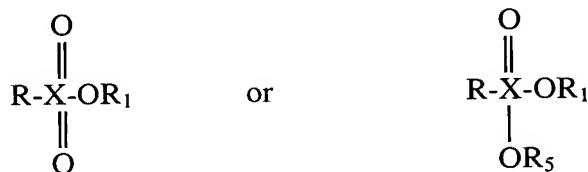
R₆ is C₁-C₁₃ alkyl; and

Y = O or NH and a pharmaceutically acceptable carrier.

~~15.~~ 16. (Currently amended – cancelled) The method of claim 14 wherein the step of contacting the sperm cells with the compound occurs *in vivo* in the male.

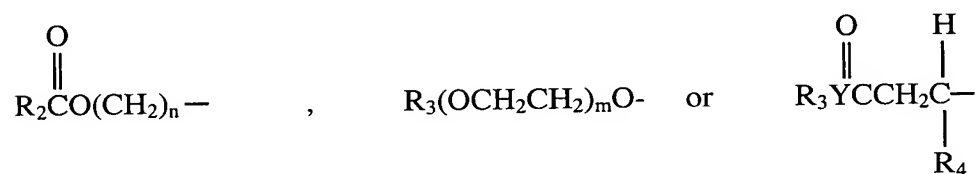
~~16.~~ 17. (Currently amended) A method for inhibiting contraception, comprising

administering to a male an effective amount of a pharmaceutically acceptable cationic salt of a compound of the general formula:

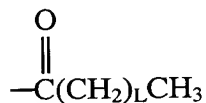


wherein X is P or S;

R is C₁-C₄ alkyl, C₄-C₂₄ alkenyl, C₄-C₂₄ alkoxy,



R₁ is H, C₁-C₄ alkyl, a pharmaceutically acceptable cation or



wherein L is 4 to 24;

R₅ is H, C₁-C₄ alkyl, phenyl or a pharmaceutically acceptable cation,

R₂ is C₄-C₂₄ alkyl or C₄-C₂₄ alkoxy, n is 0 to 4;

R₃ is C₄-C₂₄ alkyl, m is 3 to 10;

R₄ is H, C₁-C₄ alkyl or COOR₆;

R₆ is C₁-C₁₃ alkyl;

Y = O or NH.

~~17.~~ 18. (Currently amended) The method of claim ~~16~~ 17 wherein the composition is administered orally in a daily dosage form.

~~18.~~ 19. (Currently amended) The method of claim ~~16~~ 17 wherein the composition. is

administered transdermally or subcutaneously to maintain constant systemic levels. for an extended time period.